


```

QY 301 CDHRYALNEIYKVKQKTEDAKFCCKFYEQANVAVSPSEMAVPIIQAOLANIRSKDYK 360
    |||
Db 301 CDHRYALNEIYKVKQKTEDAKFCCKFYEQANVAVSPSEMAVPIIQAOLANIRSKDYK 360
QY 361 DVKDVKELQKPLLSIELVE 380
    |||
Db 361 DVKDVKELQKPLLSIELVE 380

```

RESULT 2

```

US-09-316-080-5
; Sequence 5, Application US/09316080
; Patent No. 6180366
; GENERAL INFORMATION:
; APPLICANT: John C. Royer
; APPLICANT: Lyne M. Christanson
; APPLICANT: Gregory A. Gambetta
; APPLICANT: Howard Brody
; APPLICANT: Suzanne M. Otani
; APPLICANT: Wendy T. Yoder
; TITLE OF INVENTION: Methods For Producing Heterologous
; TITLE OF INVENTION: Polypeptides In Trichochece-Deficient Filamentous Fungal
; FILE REFERENCE: 5563.200-US
; CURRENT APPLICATION NUMBER: US/09/316,080
; EARLIER FILING DATE: 1999-05-20
; EARLIER APPLICATION NUMBER: 09/082,217
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 5
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Fusarium
US-09-316-080-5

```

```

Query Match          95.9%; Score 1966.5; DB 3; Length 377;
Best Local Similarity 96.3%; Pred. No. 5.4e-203;
Matches 366; Conservative 6; Mismatches 5; Indels 3; Gaps 1;

QY 1 MENPEFTEYFNTSVRLLEYIRYRDSNTYREERIENTLHYAANKAAHFAQPRQQLKVP 60
Db 1 MENPEFTEYFNTSVRLLEYIRYRDSNTYREERIENTLHYAANKAAHFAQPRQQLKVP 60
QY 61 KRLQASLOTIVGMVYSAKYSKCMADLSHYTYTLVLDSSDDPPRANMYNNDLQAG 120
Db 61 KRLQASLOTIVGMVYSAKYSKCMADLSHYTYTLVLDSSDDPPRANMYNNDLQAG 120
QY 121 REQAHPMWALVNEHFPNVLRFHGFPCSLNLRSTLDFPEGCMIEQYNFGPGSGHDYPOF 180
Db 121 REQAHPMWALVNEHFPNVLRFHGFPCSLNLRSTLDFPEGCMIEQYNFGPGSGHDYPOF 180
QY 181 LRRNNGIGHCHCAGALMPKEQFDERGLFLEITSIAIQEMNMVAVNDLMSFYKEFDDERDQ 240
Db 181 LRRNNGIGHCHCAGALMPKEQFDERGLFLEITSIAIQEMNMVAVNDLMSFYKEFDDERDQ 240
QY 241 ISLVKNTYVSDERTLHEALEKLTQDTLHSSKQWAVASDDQPOWMDITECMHGYVTWHL 300
Db 241 ISLVKNTYVSDERTLHEALEKLTQDTLHSSKQWAVASDDQPOWMDITECMHGYVTWHL 300
QY 301 CDHRYALNEIYKVKQKTEDAKFCCKFYEQANVAVSPSEMAVPIIQAOLANIRSKDYK 360
Db 301 CDHRYALNEIYKVKQKTEDAKFCCKFYEQANVAVSPSEMAVPIIQAOLANIRSKDYK 360
QY 361 DVKDVKELQKPLLSIELVE 380
Db 361 DVKDVKELQKPLLSIELVE 380

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RESULT 3

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US-08-351-981-2
; Sequence 2, Application US/08351981

```

```

; Patent No. 5589372
; GENERAL INFORMATION:
; APPLICANT: Robinson, Gordon W.
; TITLE OF INVENTION: Squalene Synthetase
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESS: Burton Rodney
; STREET: P.O. Box 4000
; CITY: Princeton
; STATE: New Jersey
; COUNTRY: U.S.A.
; ZIP: 08543-4000
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/351,981
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/911,835
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Gaul, Timothy J.
; REGISTRATION NUMBER: 33,111
; REFERENCE/DOCKET NUMBER: DC7a
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (609) 252-5901
; TELEFAX: (609) 252-4526
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 444 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-351-981-2

```

```

Query Match          4.8%; Score 98; DB 1; Length 444;
Best Local Similarity 22.6%; Pred. No. 0.12;
Matches 65; Conservative 36; Mismatches 86; Indels 100; Gaps 15;

QY 70 IYGVNVTYSAKYSKCMADL-----SIHYTYTLVLDSSDDPPRANMYNNDLQAGREQAH 125
Db 45 LNLWTSRSPFAVIRELHPELRNCVTLFYLLRALDTIEDD-----MSIEHDKI----- 93
QY 126 PMWALVNEHFPNVLRFHGFPCSLN-----LIRSTLDFPEGCMIEQYNFGPGSGHDYPOF 163
Db 94 -----DLRRHFHKLITKMSFDGNAPDYKDRVLTDFESILIEFHKLKPEYOE 142
QY 164 -----EQYNFGPGSGHDYPOF-----LRRNNGIGHCHCAG 193
Db 143 VIKETKNGMGADYIIDENYNLGLQTVHDYVCHYVAGLVGDLTRLIVIAKFANE 202
QY 194 SLMPKXEO-FDERGLFLEITSIAIQEMNMV-----WANDLMSFY-----KEF-DDERDQIS 242
Db 203 SLTSEQLYESGLFLEKTNITRDYNEIDLVDGRSFWPKIWSQYAPQLDFMKPENEDLG 262
QY 243 L-VKNVYVSDERTLHEALEKLTQ-DTLH--SSKQWAVASDDQPOW 285
Db 263 LDCINHLVLA--ALSHVIDVLTLYLSIHQSTFQCAL-----POVM 302

```

RESULT 4

```

US-07-861-458C-98
; Sequence 98, Application US/07861458C
; Patent No. 6232061
; GENERAL INFORMATION:
; APPLICANT: Marchionni, Mark Andrew
; APPLICANT: Johnson, Carl D.
; TITLE OF INVENTION: HOMOLOGY CLONING
; NUMBER OF SEQUENCES: 142

```

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
OPERATING SYSTEM: IBM PS/2 Model 502 or 55SX
SOFTWARE: WordPerfect (Version 5.0)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/861,458C
FILING DATE: 04/01/92
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 04585/014001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 98:
SEQUENCE CHARACTERISTICS:
LENGTH: 753
TYPE: amino acid
TOPOLOGY: linear
US-07-861-458C-98

```

Query Match 4.8%; Score 97.5; DB 3; Length 753;
 Best Local Similarity 20.3%; Pred. No. 0.32;
 Matches 79; Conservative 41; Mismatches 137; Indels 133; Gaps 22;

```

QY 5 PTEYPLNTSRLLEIYIRDSNTREIRENLHY--AYNKAHHFAOPROOQLKNDPKR 62
DB 69 PSEYMSQVGDPLAYLOETTKFYTEREYEDFGGECFNST-----ESEVQVTPN- 118
QY 63 LQASLQITGVWVYS--MAKYSKCMADLSIHYYTLVLDSSD-----PY 107
DB 119 -----VYRAVVVPLFGCM--IMLYLAQSVLDKRNNEKIYDIQLKPTAPF 165
QY 108 PAMNMYFNDLQAGREQAHPWMAVNEHFPNVLRFHGF-----CSLNLIRSTLDFEGCW 162
DB 166 PAL-----TICLNLYKASLATSVDLVKRTLSAFDGA- 197
QY 163 IEQYNGFGPGSHDYPOFLRRNGLGHCVGASLMPKEQFP-----ERGLPLEITSIAIQM 217
DB 198 -----MGKAGCNKDHEE--EREFGFARCLGSGSQSSQEDKDEKEBELLETTTKKVFNI 250
QY 218 E-----NMWVVDLMSFYKEFDERDQISLVKRYVVSDEITLHEALEKLTQDTLHSSQ 272
DB 251 NGECCKMGMKMNKNTWSIMR-----ITWKKQLLEMN--MMEECSEERTNSTSPFG-- 298
QY 273 MVAVFSDK-----DPQVMDTIECFMHSYVTWHL--CDHRYRLNEIYKVGOKETEDA--- 322
DB 299 -----FDRRCICAPDRSHDAMPCTLNG--TWETTECD--TCNENHACTDNTAKGHR 349
QY 323 -----OKFCFYEQAANVAVSPSE-MAY 345
DB 350 PCICAPSRFCVAVN-----GKTPRIEIMTY 374

```

RESULT 5
 US-08-351-981-8
 ; Sequence 8, Application US/08351981
 ; Patent No. 5589372
 ; GENERAL INFORMATION:
 ; APPLICANT: Robinson, Gordon W.

```

TITLE OF INVENTION: Squalene Synthetase
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Burton Rodney
STREET: P.O. Box 4000
CITY: Princeton
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 08543-4000

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/351,981
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/911,835
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Gaul, Timothy J.
REGISTRATION NUMBER: 33,111
REFERENCE/DOCKET NUMBER: DC7a
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 252-5901
TELEFAX: (609) 252-4526
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 444 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-351-981-8

```

Query Match 4.7%; Score 97; DB 1; Length 444;
 Best Local Similarity 21.9%; Pred. No. 0.15;
 Matches 63; Conservative 37; Mismatches 86; Indels 102; Gaps 15;

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QY 70 IGVGVVYVMAKVSKEGADL-----SIHYTTLVLDSSDDPYPMNMYFNDLQAGREQA 125
DB 45 LMLTGRSPAAYVRELHPELRNCVTLPYLRLADLTIEDD-----MSIHDLKI----- 93
QY 126 PMWALVNEHFPNVLRFHGFCSLN-----LIRSTLDFEGCW----- 163
DB 94 -----DLRHFHEKLLTKMSFDGNADVDKRAVLTDFFESILIEFHKLKPEYQE 142
QY 164 -----EQYVFGFGPGSHDYPOFLRRNGL-----GHCVGA 193
DB 143 VIKETKMGNGMADYILDENVNLNGIQVHDYKVCYVAGLVGDLRLIVIANFANE 202
QY 194 SLMPKEQ-FDERGLPLEITSIAIQMENMNY-----WVNDLMSFY-----KEF-DDERDQIS 242
DB 203 SLYSNEOLYESMGLFLQKNTIINDYVEDLVGDSFMPKEIWSGYAQLQDFMPEBEOLG 262
QY 243 L--VKRYVVSDEITLHEALEKLTQ--DTLH--SSKQWAVAFSDKPOVM 285
DB 263 LDCINHLVIN--ALSHVIDVLTYLASIHGQSTFOFCAI-----POVM 302

```

RESULT 6
 US-08-468-558-2
 ; Sequence 2, Application US/08468558
 ; Patent No. 5877280
 ; GENERAL INFORMATION:
 ; APPLICANT: Wetmut, James G.
 ; TITLE OF INVENTION: Cloning and Expression of Thermotable
 ; TITLE OF INVENTION: Muts Genes and Proteins and Uses Therefor
 ; NUMBER OF SEQUENCES: 38
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.

```

/ STREET: Two Militia Drive
/ CITY: Lexington
/ STATE: Massachusetts
/ COUNTRY: United States of America
/ ZIP: 02173
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: IBM PC compatible
/ SOFTWARE: Patent Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/468,558
/ FILING DATE: 06-JUN-1995
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Granahan, Patricia
/ REGISTRATION NUMBER: 32,227
/ REFERENCE/DOCKET NUMBER: MSM94-05
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-861-6240
/ TELEFAX: 617-861-9540
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 855 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-08-468-558-2

```

```

Query Match      4.5%; Score 92.5; DB 2; Length 855;
Best Local Similarity 19.4%; Pred. No. 1.3;
Matches 75; Conservative 58; Mismatches 118; Indels 135; Gaps 20;

QY 12 TSVRLLEYIRYDSNYTREERIENLHYAVNKAHHPAQRQOOLKVPKQLQASLQITV 71
DB 512 TRINLEYELVRE--LREEVKELDKVGNNA-----TLI 543

QY 72 GNVVY-----SWAKVSKECMADLSIHYYTLVLDDSDDPYPM---MNYF-NDLQAGRE 122
DB 544 GEVDYIQLSLAMLEKGMVPR-EVHEGYELIIEGK---HPVIEFTKYNVPNDTK---- 595

QY 123 QAHFWALVNEHPNVLRHFGPFCSLNLRSTLDFEGCWIQYNGFGPSHDYPOFLR 182
DB 596 -----LTEREFHIVIT--GP-----NMAGKSSYIRQYV 621

QY 183 RMNGLHCVCASLMPKQFDERGLFLETGSAIAQWENM---VMVNDLMSF-YKEPDDR 238
DB 622 VLTLLAH-----TGSFLPKSARIPVDALFTRIGSDVLAIGVSTFMNEM 667

QY 239 DOISLVKN-----YVVSDEITLHEALEKLTQDTLHSSKQWAVPSDKDPQVMDTIECFM 292
DB 668 LDVSNLNNATKRSLLIIDEVGRGTS---TYDGLAISKAIVKYSER----- 711

QY 293 HGVTYVHLCDRYRLNEIYEKVGK-----QKTEDAQKCFKFEQAANVAVSPSEWA 344
DB 712 IGAKTL-LATHYLELTELERRKVGYNVHMEVEETDEGIRFLYLKKGAKSGFQID--- 767

QY 345 YPPIAQLANIRSKDVQVDV--KEIQ 369
DB 768 ---VAKLAGLPEEVVREAKIKLELE 790

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RESULT 7
US-08-676-444-2
/ Sequence 2, Application US/08676444A
/ Patent No. 6294325
/ GENERAL INFORMATION:
/ APPLICANT: Metmur, James G.
/ TITLE OF INVENTION: CLONING AND EXPRESSION OF THERMOSTABLE
/ FILE REFERENCE: MSM95-02
/ CURRENT APPLICATION NUMBER: US/08/676,444A
/ CURRENT FILING DATE: 1996-07-05

```

```

/ NUMBER OF SEQ ID NOS: 48
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2
/ LENGTH: 855
/ TYPE: PRT
/ ORGANISM: Aquifex pyrophilus
US-08-676-444-2

```

```

Query Match      4.5%; Score 92.5; DB 3; Length 855;
Best Local Similarity 19.4%; Pred. No. 1.3;
Matches 75; Conservative 58; Mismatches 118; Indels 135; Gaps 20;

QY 12 TSVRLLEYIRYDSNYTREERIENLHYAVNKAHHPAQRQOOLKVPKQLQASLQITV 71
DB 512 TRINLEYELVRE--LREEVKELDKVGNNA-----TLI 543

QY 72 GNVVY-----SWAKVSKECMADLSIHYYTLVLDDSDDPYPM---MNYF-NDLQAGRE 122
DB 544 GEVDYIQLSLAMLEKGMVPR-EVHEGYELIIEGK---HPVIEFTKYNVPNDTK---- 595

QY 123 QAHFWALVNEHPNVLRHFGPFCSLNLRSTLDFEGCWIQYNGFGPSHDYPOFLR 182
DB 596 -----LTEREFHIVIT--GP-----NMAGKSSYIRQYV 621

QY 183 RMNGLHCVCASLMPKQFDERGLFLETGSAIAQWENM---VMVNDLMSF-YKEPDDR 238
DB 622 VLTLLAH-----TGSFLPKSARIPVDALFTRIGSDVLAIGVSTFMNEM 667

QY 239 DOISLVKN-----YVVSDEITLHEALEKLTQDTLHSSKQWAVPSDKDPQVMDTIECFM 292
DB 668 LDVSNLNNATKRSLLIIDEVGRGTS---TYDGLAISKAIVKYSER----- 711

QY 293 HGVTYVHLCDRYRLNEIYEKVGK-----QKTEDAQKCFKFEQAANVAVSPSEWA 344
DB 712 IGAKTL-LATHYLELTELERRKVGYNVHMEVEETDEGIRFLYLKKGAKSGFQID--- 767

QY 345 YPPIAQLANIRSKDVQVDV--KEIQ 369
DB 768 ---VAKLAGLPEEVVREAKIKLELE 790

```

```

RESULT 8
US-09-710-279-2362
/ Sequence 2362, Application US/09710279
/ Patent No. 6703492
/ GENERAL INFORMATION:
/ APPLICANT: KIMMERLY, WILLIAM JOHN
/ TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
/ FILE REFERENCE: P0348005
/ CURRENT APPLICATION NUMBER: US/09/710,279
/ PRIOR FILING DATE: 2000-11-09
/ PRIOR APPLICATION NUMBER: 60/164,258
/ NUMBER OF SEQ ID NOS: 4472
/ SOFTWARE: Patent In Ver. 2.1
/ SEQ ID NO 2362
/ LENGTH: 602
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-710-279-2362

```

```

Query Match      4.5%; Score 92; DB 4; Length 602;
Best Local Similarity 18.5%; Pred. No. 0.87;
Matches 74; Conservative 49; Mismatches 120; Indels 156; Gaps 20;

QY 19 YIRY--RDSNTRYREERIENLHYA-----NKAHHPAQRQOOL 56
DB 204 FIKYIESDRRLASAFRNVTYKAGANNLTGATLAGEVKKVFNARTHTYRSRERALS 263
QY 57 KVD-PKRLQASLQITVGM---VVSWSAKVSKCMA--DLSIHYYTL-LVLDDSDDPYPA 109

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Db      264 NNHPEAVYNNLKTCHKYLPLHRYTKLAEGLDLDLKYDTLTVLVADVKEEMYY-- 321
QY      110 MNNYFNDLQAGREOAHFWMALVNEHPNVLPHGPFCS--LNLIRSTLDFEGCWIEOYN 167
Db      322 -----EBAKSW-----MLKALEPMGEELYNVKEGLD--NRWVDVYE 356
QY      168 FGFPESHDPQPLRRNNGI--GHCVGASLMPKEQDERGLPLEITSALAQEMNNVWV 224
Db      357 NKG-----KSGGYSSGGHLTNPFI-----LLNMSDTV 384
QY      225 NDLSMFYKEPD-----DERDOI SLVKNYV-----SDE--- 252
Db      385 SDLYTLVHERGSHASYFSKQNPNSLDYTI FVAEVA STCNELSLDYNKLDERRL 444
QY      253 ITHLEALEKLTQDTLHSSKQMVAVFSKDPQVMDTIECFMNGYVYVHLCRRYLAINEYE 312
Db      445 LLLNOELERFRATLFRQT--MFAEFBKHIQIEBAGEPLTPN-----RMNEEVA 491
QY      313 KVK-----GOKTEDAQKCKEYEQAAVAVSPSEWAPP 347
Db      492 KLNKLTYFEAVEYTDIDISK-----EWSRIP 516

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RESULT 9

```

US-09-134-001C-4028
; Sequence 4028, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; NUMBER OF SEQ ID NOS: 5674
; LENGTH: 612
; TYPE: PRF
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4028

```

Query Match 4.5%; Score 92; DB 3; Length 612;
 Best Local Similarity 18.5%; Pred. No. 0.89;
 Matches 74; Conservative 49; Mismatches 120; Indels 156; Gaps 20;

```

QY      19 YIRY--RDSNYTREERIEENLHAY-----NKAHHFAQPRQOQL 56
Db      214 FIKYLSDDRELASAPRVYKAYGAHNTLGA TLAGEVKKGVFNARTHHYSARERALS 273
QY      57 KVD-PKRLQASLQTIYGM--VYYSMAKSKCECA--DLSIHITYT-LVLDSSDDPYRA 109
Db      274 NNHPEAVYNNLKTCHKYLPLHRYTKLAEGLDLDLKYDTLTVLVADVKEEMYY-- 331
QY      110 MNNYFNDLQAGREOAHFWMALVNEHPNVLPHGPFCS--LNLIRSTLDFEGCWIEOYN 167
Db      332 -----EBAKSW-----MLKALEPMGEELYNVKEGLD--NRWVDVYE 366
QY      168 FGFPESHDPQPLRRNNGI--GHCVGASLMPKEQDERGLPLEITSALAQEMNNVWV 224
Db      367 NKG-----KSGGYSSGGHLTNPFI-----LLNMSDTV 394
QY      225 NDLSMFYKEPD-----DERDOI SLVKNYV-----SDE--- 252
Db      395 SDLYTLVHERGSHASYFSKQNPNSLDYTI FVAEVA STCNELSLDYNKLDERRL 444
QY      253 ITHLEALEKLTQDTLHSSKQMVAVFSKDPQVMDTIECFMNGYVYVHLCRRYLAINEYE 312
Db      455 LLLNOELERFRATLFRQT--MFAEFBKHIQIEBAGEPLTPN-----RMNEEVA 501

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QY      313 KVK-----GOKTEDAQKCKEYEQAAVAVSPSEWAPP 347
Db      502 KLNKLTYFEAVEYTDIDISK-----EWSRIP 526

```

RESULT 10

```

US-09-583-110-4076
; Sequence 4076, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; FILE REFERENCE: PAT100-07A
; CURRENT APPLICATION NUMBER: US/09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 4076
; LENGTH: 1463
; TYPE: PRF
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-4076

```

Query Match 4.5%; Score 92; DB 4; Length 1463;
 Best Local Similarity 19.6%; Pred. No. 3.6; Indels 130; Gaps 23;
 Matches 91; Conservative 67; Mismatches 177;

```

QY      1 MENPTEYFLNTSVRLLEYIRY--RDSNYTREERIEENLHAYNKAHHFAQPRQOQLKV 58
Db      306 MNNFTDLTMNVQ-DLQEVVHYERKOLMPEGERVE--FRAHNNMSTMDLFEVEELVAT 362
QY      59 DPR-----RLOASLQTIYGM-----VYYSMAKSKEC 85
Db      363 AAKMGKAAVAITDHGVQSFPHGYKAAKAGIOLIGMEANIVEDRVPIYN-----EV 416
QY      86 MADLSIHITYTIVLDSSDDPYRAMNNYFNDLQAGR-----EQAHFWMA-- 129
Db      417 EMDLS--EATYVVFVETTGTSATYNDLQVAA SKYKGVAVABEDFLNPGHPSAFT 473
QY      130 -----LVNEHFRY-----VLRHFGPFC--SLNLIRSTLDFEGCWIEOYNFGFPESHDPY 177
Db      474 TELTGTDHGVKAKKLEQLQEFQFCQDTVLVAHNAITFDVGFMANVY-----RHDL 527
QY      178 P-----QFLRM-----NGLGHCY--GASLMPKEQDERGLPLEITSALAQME 218
Db      528 PKISQVIDTLLEPARMLYPRYKRGHGLPKRGVAL--EHHNMANYDAEATGRLL--- 581
QY      219 MNNWVNDLSMFYKEDDERDOI SLVKNYVNSDEITLHLEALEKLTQDTLHSSKQMVAVFS 278
Db      582 --EPIKEVAERKGVTDLARLNTDLSPSYKKAIRKHAITYVKNQGLKNIRFLVSLN 639
QY      279 DK-----DPOVMDTI--ECFMNGYVYVHLCRRYLAINEYEKVGOKTEDAQKCKEYEQAA 333
Db      640 TKYFEGVPRPRVLDNAHREGILGSACSE--GEVFDVVSQGVDAAEVAKYID-- 692
QY      334 NCVAVSPSEWAPPRIALQANIRSKDVYKDVKEIKPLLSIEL 378
Db      693 FIVMPPATVIA-PLIAK-----EQVDMELQTIKSLIEV 727

```

RESULT 11

```

US-09-538-092-601
; Sequence 601, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Giot, Loic

```

APPLICANT: Mansfield, Traci A.
TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
FILE REFERENCE: 15966-542
CURRENT APPLICATION NUMBER: US/09/538,092
CURRENT FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: 60/127,352
PRIOR FILING DATE: 1999-04-01
PRIOR APPLICATION NUMBER: 60/178,965
PRIOR FILING DATE: 2000-02-01
NUMBER OF SEQ ID NOS: 1387
SOFTWARE: Curebaseformatter Version 0.9
SEQ ID NO: 601
LENGTH: 880
TYPE: PRT
ORGANISM: Saccharomyces cerevisiae
FEATURE:
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Polypeptide Accession Number YML099C
US-09-538-092-601

Query Match 4.5%; Score 91.5; DB 4; Length 880;
Best Local Similarity 19.0%; Pred. No. 1.8;
Matches 80; Conservative 67; Mismatches 127; Indels 147; Gaps 23;

QY 34 ENLHYAVNKAHFAOPRQQL-----KVDPRKLUAS-----LQTVIG 72
DB 307 QNLKLLFOKSSNSSEBPPOLIDDVFNIEPRSLPABDLKTLAPNERRPKSMLE 366
QY 73 MVTYSMAKVSKECM-----ADLSHYTYTLVLDSSDPYPMANNYPNDLQAGRE---Q 123
DB 367 LITSY-SQLPELVLDIIPKTDLTVHGLARFILN-----HYFNNVADKMTVVYLE 414
QY 124 AHPMALVNEFFVNLHFGPCSLN-----LIRSTL-----DF 157
DB 415 KNPKRTL--YFPRLMALGDLAGLQSSNSRNALLNALVSCFHLQSKYPRNYKQY 471
QY 158 FEGCMIFQVNGCGPFGSHDYQPLRMNGLGHCVGASLWPKQFDERGLFLEITSATQM 217
DB 472 FLGIGIEIRN-----QASNFLCLANT-----KSLPERK--YKQVLTALISM 511
QY 218 ENMMVAVNDLMSFYKEFDERDQISLVKNYV-----VSDEI-TLHEALE--KLTOD 265
DB 512 ----NSIDVVGTMADQDHLALCEDFVESRMKLRPNISEKTKTLHIFSLKLIQD 564
QY 266 TLH-----SSQGMVAVFSDKP--QVMDT-----ICFPHGVTYTHLCHRRRLN 308
DB 565 STALDKVRAKEIVILPSEEDNYKPLDTSNATSSSEBRVDVVOEGL-----FREALN 617
QY 309 EIVEKVGQKTEQKQCKFY-EOAANYGAVSPSEWAPPIAOLANIRSKVDKVKYKE 367
DB 618 E-----NDOKIHIEFKEPITVNSADSTSPSTTPPL--PTNIATSEYVYKSDISK 665
QY 368 I 368
DB 666 L 666

RESULT 12
US-08-826-267-2
Sequence 2, Application US/08826267
Patent No. 5994070
GENERAL INFORMATION:
APPLICANT: Streuli, Michel
TITLE OF INVENTION: NO. 5994070el TRIO Molecules and Uses Related Thereto
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/826,267
FILING DATE: 1997
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/014,214
FILING DATE: 27 MARCH (1996)
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: DFN-010
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2860 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-826-267-2

Query Match 4.4%; Score 90.5; DB 2; Length 2860;
Best Local Similarity 20.7%; Pred. No. 15;
Matches 57; Conservative 37; Mismatches 80; Indels 101; Gaps 11;

QY 202 DERGLFLEITSALAQ-----MENMMVWVN-----DLMSFYKERDDE-----RDOISLV 244
DB 379 DERSTLDMSSITRHOAKETKMSVNDKCAKCAQGVLDLPSELQDEBDALINHHQIGYEHTLA 438
QY 245 KNYVSDETILHBALEK-----LTDPLHSSKOM----- 273
DB 439 YSEVSDQSKLIDKLRPLRGSSDSLTAASANYSKAVNHVLDVINEVLHGRVYRTIMQ 498
QY 274 -----VANPSDKDPVMDTIECFPHGVTYTHL-----CHRRRLN--NEIYKVK 315
DB 499 RKYRLHQRLOLCVFOQEVQVLDIMENHGEAFLSKKTGVKSLRRALQKRHEDEEVA 558
QY 316 GQKTEAQKCFCKYEOAANYGAVSPSEWAPPIAOLANIRSKVDK----- 361
DB 559 QNTYTADKLLBAEAGLAQGECDPER-----IYQAAHQDEBKIDQDFVRKVEQKILDM 613
QY 362 -----VKD-----VKEIQKPL-----SSIELVE 380
DB 614 SVSFHTHVKELMTWLELQKELLDDVYASVEAVQ 648

RESULT 13
US-09-946-678-2
Sequence 2, Application US/09946678
Patent No. 6541236
GENERAL INFORMATION:
APPLICANT: ITO, Kotaro
APPLICANT: UMITSUKI, Genryou
APPLICANT: KOYAMA, Yasuji
TITLE OF INVENTION: Protein Having Glutaminase Activity and Gene Encoding the Same
FILE REFERENCE: 0283-0158P
CURRENT APPLICATION NUMBER: US/09/946,678
CURRENT FILING DATE: 2001-09-06
PRIOR APPLICATION NUMBER: JP 2000-270371
PRIOR FILING DATE: 2000-09-06
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 2
LENGTH: 684
TYPE: PRT
ORGANISM: Cryptococcus nodaeensis
US-09-946-678-2

Query Match 4.3%; Score 89.5; DB 4; Length 684;
 Best Local Similarity 23.3%; Pred. No. 2;
 Matches 79; Conservative 32; Mismatches 101; Indels 127; Gaps 22;

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QY 58 VDKRRLQASLQITVGVVSVMAKSKCEMADLSIHTYTLVLDSSDDPYAMNVPNDL 117
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 372 IDP---AASVGVYGLNR-SMSAISLEGALPILOQDTAGF-----FARDA 412
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 118 QAGREQAHPWALVNEHPVNLHFGPFCSL--NLT--RSTLDF--FEGCWEIQVFGG 170
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 413 QSGIAFQGWG-----DRFGNFTLPTNLILPNSWEPAQFAQ--EQFN--A 458
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 171 F-----PGSHDYQPLRRMNGLGHCVGASLWPKQDE-----RGLFLEITSALQ 216
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 459 FRDGLDLVPRASVDVDFEGYMTSG-----RFEQVNAKSDYLYEYVAVLIT 507
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 217 MENW---WVAVNDLMSFYKEFDDER---DQISLVK-NVAVSDEITLHEALEKLTQDTL 267
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 508 YVGMNNGKLMYED---VABQNDGRQPFVDPSPLVAMTY-----ARDVLTADF 553
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 268 HSG---KQVAVPSDKDPQVMDTECFMAGYVT-WHLCDHRYRLNEIYEKVGQKTEDAQ 323
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 554 NSSTAKKELFEKFDTEVLVDKNSSTCSAIVAVYGLAQAYR----- 596
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 324 KFCGFYQANVAVSPSEWAP-----PIAQL 351
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 597 ---NIVQAASV---PFGFYPAQFSGVPQLIVPQQL 628
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```

RESULT 14

US-09-328-352-4636
 ; Sequence 4636, Application US/09328352
 ; Patent No. 6562958
 ; GENERAL INFORMATION:
 ; APPLICANT: Gary L. Breton et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
 ; FILE REFERENCE: GTC99-03PA
 ; CURRENT APPLICATION NUMBER: US/09/328, 352
 ; CURRENT FILING DATE: 1999-06-04
 ; NUMBER OF SEQ ID NOS: 8252
 ; SEQ ID NO 4636
 ; LENGTH: 324
 ; TYPE: PR1
 ; ORGANISM: Acinetobacter baumannii
 ; US-09-328-352-4636

Query Match 4.3%; Score 89; DB 4; Length 324;
 Best Local Similarity 19.5%; Pred. No. 0.66;
 Matches 57; Conservative 58; Mismatches 94; Indels 84; Gaps 16;

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QY 51 ROOOLKVDPRRLQASLQITVGVVSVMAKSKCEMADLSIHTYTLVLDSSDDPYAM 110
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Db 90 RSKPLVIYIAKEIQ-----QMFETIQ-LTDL--HLPSIKFIDVNAETPQQ 134
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 111 MNVFNDLQAGREQAHPWALVNEHPVNLHFGPFCSLNT-IRSTLDFEGCWEIQVFGG 169
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 135 LT--DELFI---QAHF-----LSHRVPSFAFSIYIKSTQKID----- 167
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 170 GFGSHHYQPLRRMNGLGHCVGASLWPKQFDERGLFLEITSALQMEMMNVVNDLMS 229
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 168 -----IQVLTQLGVSKG-DIWGHL--KRGYDFEGRIKSDFIKIQN--QQ 210
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 230 FYKEFDDERQDISLVKNVVSDEITLHEA-----LEKLTQDTLSSKQWAVPSDKDPQ 283
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 211 IHALIGDNDREPELLACADQALLIHEATYLTQVLDKVGKGMHSSAKVAEFAEQ--Q 266
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 284 VMDTIECFMAGYVTWHLCDHRYRLNEIYEKVGQK--TEDAQKCFKFEQAN 334
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 269 SLDWL-----ILTHSPR-----HDKTGGQALTEEVQGFYKGFYLAN 307
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RESULT 15

US-09-292-225-35
 ; Sequence 35, Application US/09292225
 ; Patent No. 6455686
 ; GENERAL INFORMATION:
 ; APPLICANT: McCall, Catherine A.
 ; APPLICANT: Hunter, Shitley Wu
 ; APPLICANT: Weber, Eric R.
 ; TITLE OF INVENTION: NOVEL DERMATOPHAGOIDES NUCLEIC ACID MOLECULES, PROTEINS
 ; FILE REFERENCE: AL-2-C3
 ; CURRENT APPLICATION NUMBER: US/09/292,225
 ; CURRENT FILING DATE: 1999-04-15
 ; EARLIER APPLICATION NUMBER: 60/098,909
 ; EARLIER FILING DATE: 1998-09-02
 ; EARLIER APPLICATION NUMBER: 60/085,295
 ; EARLIER FILING DATE: 1998-05-13
 ; EARLIER APPLICATION NUMBER: 60/098,565
 ; EARLIER FILING DATE: 1998-04-17
 ; EARLIER APPLICATION NUMBER: 09/062,013
 ; EARLIER FILING DATE: 1998-04-17
 ; NUMBER OF SEQ ID NOS: 49
 ; SOFTWARE: Patentln Ver. 2.0
 ; SEQ ID NO 35
 ; LENGTH: 509
 ; TYPE: PR1
 ; ORGANISM: Dermatophagoides farinae
 ; US-09-292-225-35

Query Match 4.3%; Score 88; DB 4; Length 509;
 Best Local Similarity 20.7%; Pred. No. 1.8;
 Matches 63; Conservative 44; Mismatches 104; Indels 94; Gaps 17;

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QY 14 VLLEYIRYRDSNYTBEERIEHLIYAVNKAHHFAQPROQOLIKVDPKRLQASLQITVGM 73
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 14 IGLMNAATKRDHNNYSKPMRIVCYGTWSVH-----KVDPYTIEDIDPFKCTH 63
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 74 VVYSMAKSKCEMADLSIHTYTL--VLDDSSDDPYAMNV-----FNDLQAGREQAHPW- 127
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 64 LMVGFAPKID-----YKTYIQVDFPDQDNNHSMWKGYERFNNLRLKNPDLTWT 114
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 128 ---MALVNEHPVNLHFGPFCSLNLRSTLDFEGCWEIQVFGG-----FPGSH-- 175
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 115 SLGWTGSEKSYDMMAN--PTYRQPFVGSVDF-----LQRYKFGDLDMRYPSGRLG 167
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 176 ---DYQPLRRMNGLGHCVGASLWPKQFDERGLFLEITSALA----- 215
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 168 NPKIDKQNYTLVREL-----KEAFEPFGYLL--TAAVSPGDKIDVAYELKELN 215
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 216 QMENNM-----WVNDL--NSFYKEFDDERQDISLVKNVVSDEITLHEALEK-L 262
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 216 QLFDMNKNVMTDYDHGGMENVFCHNAPLYKR-PDETDELHYFNV-----NYTMHYLLNNGA 270
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 263 TODTL 267
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 271 TRDKL 275
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Search completed: December 9, 2004, 18:49:39
 Job time : 29 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 9, 2004, 18:48:38 ; Search time 149 Seconds

(without alignments)
910.925 Million cell updates/sec

Title: US-09-710-760-2

Perfect score: 2050
Sequence: 1 MEMFPREYFLNTSVRLLEYI.....DVDVKEIOKPLSLSTIEIV 380

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1585576 seqs, 357178320 residues

Total number of hits satisfying chosen parameters: 1585576

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database:

Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubppaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubppaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubppaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubppaa/US06_PUBCOMB.pep.*
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- 6: /cgn2_6/ptodata/2/pubppaa/PCTUS_PUBCOMB.pep.*
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- 9: /cgn2_6/ptodata/2/pubppaa/US09_PUBCOMB.pep.*
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- 11: /cgn2_6/ptodata/2/pubppaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubppaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubppaa/US10_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubppaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubppaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubppaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubppaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubppaa/US11_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/2/pubppaa/US60_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/2/pubppaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	130	6.3	440	US-10-448-871A-33	Sequence 33, Appl
2	107	5.2	725	US-10-156-761-9701	Sequence 9701, Ap
3	98	4.8	1564	US-10-389-566-1234	Sequence 1234, Ap
4	97	4.7	681	US-10-156-761-13818	Sequence 13818, A
5	96	4.7	1162	US-10-452-024-113	Sequence 113, App
6	95.5	4.7	763	US-10-424-599-192645	Sequence 192645,
7	94.5	4.7	781	US-10-425-114-49494	Sequence 49494, A
8	94.5	4.6	879	US-10-149-310-52	Sequence 52, Appl
9	94.5	4.6	1201	US-09-863-776-61	Sequence 61, Appl
10	94	4.6	514	US-10-369-493-6698	Sequence 6698, Ap
11	94	4.6	713	US-10-437-963-150539	Sequence 150539,
12	94	4.6	750	US-10-437-963-185546	Sequence 185546,
13	94	4.6	1107	US-10-032-585-7483	Sequence 7483, Ap

14	94	4.6	1460	US-09-815-242-13668	Sequence 13668, A
15	93.5	4.6	381	US-10-425-115-283715	Sequence 283715,
16	93.5	4.6	1053	US-10-425-115-345011	Sequence 345011,
17	93	4.5	346	US-10-012-813-82	Sequence 82, Appl
18	92.5	4.5	220	US-10-425-115-282876	Sequence 282876,
19	92	4.5	309	US-10-425-115-54740	Sequence 54740, A
20	92	4.5	327	US-10-424-599-154357	Sequence 154357,
21	92	4.5	411	US-10-425-114-64692	Sequence 64692, A
22	92	4.5	444	US-10-369-493-22063	Sequence 22063, A
23	92	4.5	1162	US-10-452-024-114	Sequence 114, App
24	91.5	4.5	880	US-10-149-310-50	Sequence 50, Appl
25	91.5	4.4	2326	US-10-369-493-6374	Sequence 6374, Ap
26	90.5	4.4	495	US-10-425-115-326239	Sequence 326239,
27	90.5	4.4	1469	US-10-369-493-5675	Sequence 5675, Ap
28	90.5	4.4	2861	US-10-374-979-108	Sequence 108, App
29	90.5	4.4	2861	US-10-331-496A-89	Sequence 89, Appl
30	90.5	4.4	2861	US-10-182-936A-108	Sequence 108, App
31	90.5	4.4	2861	US-10-477-238A-687	Sequence 687, App
32	90.5	4.4	2861	US-10-680-287A-687	Sequence 687, App
33	90.5	4.4	3038	US-09-863-776-62	Sequence 62, Appl
34	90	4.4	729	US-10-094-749-2118	Sequence 2118, Ap
35	90	4.4	1162	US-10-452-024-115	Sequence 115, App
36	90	4.4	2100	US-10-195-144-59	Sequence 59, Appl
37	90	4.4	2100	US-10-345-072-59	Sequence 59, Appl
38	89.5	4.4	613	US-10-389-566-1884	Sequence 1884, Ap
39	89.5	4.4	623	US-10-389-566-1885	Sequence 1885, Ap
40	89.5	4.4	684	US-09-946-678-2	Sequence 2, Appl1
41	89.5	4.4	708	US-10-282-122A-66462	Sequence 66462, A
42	89.5	4.4	716	US-10-425-114-49283	Sequence 49283, A
43	89.5	4.4	763	US-10-424-599-192647	Sequence 192647,
44	89.5	4.4	765	US-10-149-310-38	Sequence 38, Appl
45	89.5	4.4	770	US-10-425-114-39704	Sequence 39704, A

ALIGNMENTS

RESULT 1
US-10-448-871A-33
; Sequence 33, Application US/10448871A
; Publication No. US20040093169A1
; GENERAL INFORMATION:
; APPLICANT: Mizushima, Yoshiyuki
; APPLICANT: Sakaguchi, Kengo
; APPLICANT: Sugawara, Fumio
; TITLE OF INVENTION: A METHOD FOR DESIGNING A MOLECULAR STRUCTURE OF AN INHIBITOR FOR
; FILE REFERENCE: 03316/LH
; CURRENT APPLICATION NUMBER: US/10/448, 871A
; CURRENT FILING DATE: 2003-05-29
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: PatentIn version 2.0
; SEQ ID NO 33
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Simian foamy virus type 3
US-10-448-871A-33

Query Match 6.3%; Score 130; DB 15; Length 440;
Best Local Similarity 20.4%; Pred. No. 0.0013;
Matches 83; Conservative 66; Mismatches 142; Indels 116; Gaps 21;
QY 45 HHPA---OPROQLKVDKRLQASIQITGVNVTYSMAVSKCNADLSIHYTYLVLD 100
DB 9 HHATGTGNRPQKQYPIKPK-AKASIQITVINLKLKGVLIQONSIWNTVPV----- 61
QY 101 DSSDDPYPAMNNFENLQAGRE--QAPMVALNHEHPNVLRFH--GPFSMLIRSTLD 156
DB 62 PKPDGKRWLVLD-----REVNKTIPLIAONQSHAGLSSIFRKY-----KTTLD 108
QY 157 FPFSGWIEQVTFGFGPSHDYPOFLRRMNGLGCHGVASLWPKSQDFERGULF-LEITSATA 215
DB 109 LSNQFMNHSIT-----PESTY-----WLTAFTWLGQGYQCYCTRPLPQGLNPSPALFTADVLDLK 160

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QY 216 OMENMMVWVNDLMSFKPEPDERDQI-----SLVKN--YVVS---DEITLHEA----- 258
Db 161 EYFNVOVVYDDI---YISHDDPREHLEOEKVPFSLINLNGVYVSLKXKSIAGIEVFLGF 217
QY 259 -----LEKLTQDT-----LHSSKQWAVFSDDPQVMDIEGF 291
Db 218 NITKEGRGLTEFKQKLTNITPPRDKQLOSLIGLINFARNITPNFSELVKPLNITATA 277
QY 292 MNGYVTHLCHRYRLNEIYEKKQK-----TEDAQKCFYEQAANV 335
Db 278 NCKYITW--TTDNSOQLONITISLMSAENLEERNPEVRLIMKVNTPSAGYIRFY----- 330
QY 336 GAVPSEWAVPPIAOLANIRSK-DVQVDVQV---EIOKPLISSTEL 378
Db 331 -----NEFAKRPIMLNIVYVTAQVAFNTTEKLTITTHKGLIKALDL 372

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RESULT 2
US-10-156-761-9701
; Sequence 9701, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 9701
; LENGTH: 725
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-9701

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Query Match 5.2%; Score 107; DB 14; Length 725;
Best Local Similarity 21.5%; Pred. No. 0.48; Indels 82; Gaps 15;
Matches 62; Conservative 42; Mismatches 102;
QY 88 DLSHYTYTLVLDSSDDPYRPMNNYFNDLQA-----GREQANP----- 126
Db 441 DLSRW---LAMGTYGDDYPMVFGPRDLAAALCTRRLSACMPVGEVPAVNGMER 497
QY 127 ---WMLVN-EHFPNVLRHGFPCSLNLRSTLDFEGCGYEQN---FGGFGSHDYP 178
Db 498 GLIDMLITTAEMTPDERRTF-----RASVDVMTESVWMLSNQLOHRIJPDPIYL 548
QY 179 QFLRRNG-----LGHCVGASLWPKQFDERGFLRTITSIAOMEN-----MMVWVN 225
Db 549 EMRATATGADULTSLCVGH--GPKVPE-----IYRSGVRLERNAADVGMILIN 597
QY 226 DLMSEYEFDE---RQISLVKNYVVSDEITLHELEKLTQDTLHSSKQWVA-----VF 277
Db 598 DVFSYQKEIEYEGEVNAIIVQNFPGCDYPTALGVINDMTQRMHQFEHVAHAHELPLLY 657
QY 278 SD-KDPQ-----VMD-----TIECFMNGVYVTHLCHRYRLNEIYEKKV 316
Db 658 KDFKLPFVARDINDGYVEIOMNMSGILKWHQDCHRYGAADLARRAHG 705

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RESULT 3
US-10-389-566-1234
; Sequence 1234, Application US/10389566

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; Publication No. US20040025202A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology, LLC
; APPLICANT: Laurie, Cathy C
; APPLICANT: Laurie, Cathy C
; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
; FILE REFERENCE: 38-77152500D
; CURRENT APPLICATION NUMBER: US/10/389,566
; PRIOR FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: US 60/365,301
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/391,786
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/392,018
; PRIOR FILING DATE: 2002-06-26
; NUMBER OF SEQ ID NOS: 2459
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1234
; LENGTH: 1564
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-389-566-1234

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Query Match 4.8%; Score 98; DB 15; Length 1564;
Best Local Similarity 21.0%; Pred. No. 11;
Matches 87; Conservative 59; Mismatches 108; Indels 160; Gaps 25;
QY 7 EYFLNTSVRLLEYIRYRDSNYTREERIENLHVYNNKAHHFAOPROOQLKYDP----- 60
Db 844 EYDSSSVKNIVLTRYQSEDSRSTWETR-----AQAREKEWEDPGLRME 892
QY 61 -----KRLQASLQTVIGMNVVSMKVSKECMADSIHTYTLVLDSSDDPYPM 110
Db 893 KLENKIAEQNKDKKFAQIDITRILISYVNN---ASSGH-----LQOQRSEHYPS- 944
QY 111 MNYFNDLQAGREOAHPWMLVNEHFPNVLRHGFPCSLNLRSTLDF--PEG---CW--- 162
Db 945 SEVFHVRRTG-----TNSNYSAYTR-----SKLDFFHFGSDRVADWLF 983
QY 163 -IQYVNGFGPGSHDY-POFLRRNGLGHCVGASL-WPKQPDERGLFLEITSIAOMEN 219
Db 984 KLEQF-----FSLDTPBELKVSIASTLCDGAAMKYSLF-----ESDFGVYLSN 1030
QY 220 MVMV-----VNDLSFKPEPDERDQISLVKNYVVSDEITL 255
Db 1031 KNNYKLLBSHPAEVLDDPISLKKQKETNGIIEYHKFELLARVNLSEDTLV----- 1084
QY 256 HEALEKLTQDTLHSSKQW-VAVFSDKDPQVMDTIECFMNGYVTHLCHRYRLNEIYEKV 314
Db 1085 ---RVYLDGLHPDTQNMVNMF---QPQTV---CQCLLVG-----RLYEGV 1120
QY 315 KQKQT-----EDAQKCFKFEQAANVAVS---PSEWAVPPIAOLANIRSKD 358
Db 1121 H-QKILIRKVGDESK-----CAPLIANVNEVAGP---SLSNIHVD 1159

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RESULT 4
US-10-156-761-13818
; Sequence 13818, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30

```

PRIOR APPLICATION NUMBER: JP 2001-272697
 PRIOR FILING DATE: 2001-08-02
 NUMBER OF SEQ ID NOS: 15109
 SEQ ID NO 13818
 LENGTH: 681
 TYPE: PRT
 ORGANISM: Streptomyces avermectilis
 US-10-156-761-13818

Query Match 4.7%; Score 97; DB 14; Length 681;
 Best Local Similarity 21.6%; Pred. No. 4.1;
 Matches 81; Conservative 56; Mismatches 138; Indels 100; Gaps 20;

QY 61 KRLQASLQITVGM-----VYSMAKVSKECMADLSIHITYTLVLDDSSDDPYPA 109
 DB 41 QRLASFPQDLAHPRTTWTAAASVETWSTVEA-LQLESWIKEXD-----PR 92
 QY 110 MMVYFNDLQAGREOAHPMAL-VNEHPPNV-----LRHGPFCSLNLRSTLDFP 158
 DB 93 FNVKVRD-----DKSYPLAVTMBEPPRVQWGHKRGKVRVYGFYGHAMLRDITV 147
 QY 159 -----EGCWIEQYNG-----GPGSHDYPOFLRMNGLGHCVGASLMPKEQFDE 203
 DB 148 LRVYPRVTCAGYFNKNAFTGRPCLGIGKSNP-CVERVSAEHEBELA-----EFC 201
 QY 204 -----RGFLFETLSAQEMNMMVNDLMSFYKEFDEDRDQISLVKNVVSDEI 253
 DB 202 FMAGRTGTIIRLEROMTDAEEME-----YKKAARLRDIDIGALKAMEKNV 249
 QY 254 TLHEA-----LEKLTQDTLHSSKQWAV-----FSPDKDPQVMDTIECFMNGVYVHMLCDHRY 305
 DB 250 VLADATDADILAAVELEAAVOIFHVRGGRVGRQGRWVTDKVE-----ATTADLV 303
 QY 306 RLNEIYEVKVGQKTEDAQKCFEYBOANVAVSP-SEMAVPIAQLANIRSKVDKVDK 364
 DB 304 ALQOLY-----GEETGDSVP--KEVLVPALPDPVPEVQEWLTGRRGSIVSLRIP 357

RESULT 5

US-10-452-024-113
 Sequence 113, Application US/10452024
 Publication No. US20040013687A1
 GENERAL INFORMATION:
 APPLICANT: Simpson, Lance
 APPLICANT: Park, Jung-Beak
 TITLE OF INVENTION: Compositions and Methods For Transendothelial Molecular Transport
 FILE REFERENCE: 9855-9601
 CURRENT APPLICATION NUMBER: US/10/452,024
 PRIOR FILING DATE: 2003-06-02
 PRIOR APPLICATION NUMBER: 60/384,949
 NUMBER OF SEQ ID NOS: 188
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 113
 LENGTH: 1162
 TYPE: PRT
 ORGANISM: Clostridium botulinum
 US-10-452-024-113

Query Match 4.7%; Score 96; DB 15; Length 1162;

Best Local Similarity 16.5%; Pred. No. 11;
 Matches 79; Conservative 72; Mismatches 143; Indels 184; Gaps 20;

QY 9 PLATSVLLEIYR-----YRDSNYTEERIENLHYA--- 39
 DB 77 FLQATIKLQRIINNNAVGAKLILSLTAIPPEYENNTEDYRQTVLSSKNNEHYTANLV 136
 QY 40 -----YVKAHHNPAQRQOQL-----KVDRKRLQASLQITIVGM 74

DB 137 IFGRGSNIKNVIYKK-----EVAESGMGLMELWFOPLTHYKDERVYVPALELI----- 169
 QY 75 VYSMAKVSKECMADLSIHITYTLVLDDSSDDPYPAMANNVNDLQAGR----- 121
 DB 190 -----KLLIK-SLYLYLYGIRKPNNDNLNIPY-RLRNEFNLSLEYSLNIDFLISGID 238
 QY 122 ---EQAHPMALVNEHPPNVLRHGPFCSLNLRSTLDFEGCMIEQYNGPGFSGSHDY 178
 DB 239 YKLLNTNIPY-FLDKYFIDTSKNP-----EKI-----KNQDY 269
 QY 179 QFLRMNGLGHCVGASLMPKEQFDERGLFLEITSAIQEMNMMVNDLMSFYKEFPD--- 235
 DB 270 IKIKNNNYINSLI-----KLYIEQKFNKVNQ--IMELNLSYFSGEPQIDM 313
 QY 236 -----DERDQISLVKNVYV---SSEITLHEALEKLTQDTLHSSKQWAVFS 278
 DB 314 PERYNALNHYRKEFEVVIDYFKQVNINGKNGQIKTKPLSKYKKEIINKPELIVNLIN 373
 QY 279 DKQPOVW-----DTIECFMNGVYVHMLCDHRYRNEIY-----EKVQKQKT 319
 DB 374 QNNTVLMKSNIVGDGLKGVNDNFYSNLIIPYNLYEHSINVFYLDVNIETIEKIPIND 433
 QY 320 ED-----AQKCFEY--QAANVGAVSPSEMAVPIAQLANIRSKVDKVDKSEI 368
 DB 434 EDIYPRKXADTIPYVNTIKAKEINTTPLPVNY---LQAMIDSNIDNLSDDFLKV 488

RESULT 6

US-10-424-599-192645
 Sequence 192645, Application US/10424599
 Publication No. US2004001072A1
 GENERAL INFORMATION:
 APPLICANT: La Rosa Thomas J
 APPLICANT: Kovalic David K
 APPLICANT: Zhou Yihua
 APPLICANT: Cao Yongwei
 TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
 TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-21(53223)B
 CURRENT APPLICATION NUMBER: US/10/424,599
 PRIOR FILING DATE: 2003-04-28
 NUMBER OF SEQ ID NOS: 285664
 SEQ ID NO 192645
 LENGTH: 763
 TYPE: PRT
 ORGANISM: Glycine max
 OTHER INFORMATION: Clone ID: PAT_MRT3847_15981C.1.pep
 US-10-424-599-192645

Query Match 4.7%; Score 95.5; DB 15; Length 763;
 Best Local Similarity 21.1%; Pred. No. 6.8;
 Matches 95; Conservative 69; Mismatches 135; Indels 151; Gaps 27;

QY 11 NTSVRLLEYIRYDSNY-----TREERIENLHYVNAHHPAQRQOQLKVDPRKLQAS 66
 DB 101 NATVPAMEKTKWPDYTHFIVPELGPVDTYASHKAVDEY---KEAKALGVD-----T 151
 QY 67 LQITIVGVVY-----SMAKVS-----KECMADLS-----HYTY-TLV 98
 DB 152 IPVLGVPRVYTLILSKPAKGVKFSLSLPLKVLAVYKEVIAIDUKAAGASWIOFDEFTLV 211
 QY 99 LDDSS-----DDPYPAMANNVNDLQAGREOAHPMALVNEHPPNV-LRHGPFCSLN-- 149
 DB 212 LDLESHLQAFDTAVYALAPALSDLN-----VLVETYPADIPABAYKTLTSLNGV 261
 QY 150 -----LIRS--TLDFEGCWIEQYNGFGRPG-----SHYPOFLRMNG 166
 DB 262 TAYGFDLVGRGTHLTDLIK-----GGPFGSKYLVFAGVVDGRNIVANDLAASLTTLQ 312
 QY 187 LGHCVGASLMPKEQFDERGLFLEITSAIQEMNMMVNDLMSFYKEFDEDRDQISLVKN 246

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Db      313 LEGIVS-----KDK-----LVSTSSSLHTAVDLVNE-----TKLDE-----IKS 349
Qy      247 YV--VSDETITHEALEKLTQDTLHSSKQWAVFS-----DKDPQWDTTECFMNGY 295
Db      350 WIAFPAQKIVEVNAALAKAL-----SGNKDVAFPSANAAAQASRKSSPRV--TNEAVQKAA 402
Qy      296 VTMHLCDHRYRLNEIYEKVGQKTEDAQKCFKFEQOANVAVG--SPSEWAVYPIAQLANI 354
Db      403 AALKSDHR-RATNVASRL-----DAQ-----QKKNLPILPTTIGSPQVVELRRV 449
Qy      355 R----SKVDVAVDVKYEQKPLLSIEIIVE 380
Db      450 RREFRANKISEEYVKSIEIKRIVELQOE 479

RESULT 7
US-10-425-114-49494
; Sequence 49494, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 49494
; LENGTH: 781
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: clone ID: 700834118_FLI.pep
US-10-425-114-49494

Query Match      4.7%; Score 95.5; DB 15; Length 781;
Best Local Similarity 21.1%; Pred. No. 7.1;
Matches 95; Conservative 69; Mismatches 135; Indels 151; Gaps 27;

Qy      11 NTSVRLLEYIRYRDSNY-----TREERIENTHYAANKAHHPAOROOQLTKVDPKRLQAS 66
Db      119 NATVPAMEMTKMPDNTNHFIVPELGPVDNFTYASHKAVDEY---KEAKALQVD-----T 169
Qy      67 LQTVGMVY-----SWAKVS-----KECMADLS-----IHATY--TLV 98
Db      170 IPIVAGPVYTLILSKPAKGVKESFSLSLPRKVLAVYKEVIADIKKAGASWIGFDEPTLV 229
Qy      99 LDDSS-----DDPYRPMNNYFNDLQAGREGAHPMMALVNEHFNV--LRHGFPCSLN-- 149
Db      230 LDLESHKLGATDVAIELAPALSDLN-----VLVETVADITPAEAKTKLTSLNGV 279
Qy      150 -----LIRS--TLDFEBCWIEQYNFGFPG-----SHDYPOQFLRMNG 186
Db      280 TAYGFDLVRGHTHTDLIK-----GGFSGKYFLFAGVVDGKNIMANDLAASLTTLQG 330
Qy      187 LGHVUGASLWPKRQFDERGLFLETISALQEMNNMNVNDLMSYKFFDDBRQDISLVKN 246
Db      331 LEGIVG-----KDK-----LVVSTSSSLHTAVDLVNE-----TKLDE-----IKS 367
Qy      247 YV--VSDETITHEALEKLTQDTLHSSKQWAVFS-----DKDPQWDTTECFMNGY 295
Db      368 WIAFPAQKIVEVNAALAKAL-----SGNKDVAFPSANAAAQASRKSSPRV--TNEAVQKAA 420
Qy      296 VTMHLCDHRYRLNEIYEKVGQKTEDAQKCFKFEQOANVAVG--SPSEWAVYPIAQLANI 354
Db      421 AALKSDHR-RATNVASRL-----DAQ-----QKKNLPILPTTIGSPQVVELRRV 467
Qy      355 R----SKVDVAVDVKYEQKPLLSIEIIVE 380

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Db      468 RREFRANKISEEYVKSIEIKRIVELQOE 497

RESULT 8
US-10-149-310-52
; Sequence 52, Application US/10149310
; Publication No. US20040077039A1
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas
; APPLICANT: Madden, Kevin T.
; APPLICANT: Maxon, Mary
; APPLICANT: Sherman, Amir
; TITLE OF INVENTION: Modulation of Secondary Metabolite Production by
; FILE OF INVENTION: Zinc Bimolecular Cluster Proteins
; FILE REFERENCE: 14184-019US1
; CURRENT APPLICATION NUMBER: US/10/149,310
; CURRENT FILING DATE: 2003-02-19
; PRIOR APPLICATION NUMBER: PCT/US01/29288
; PRIOR FILING DATE: 2001-09-19
; PRIOR APPLICATION NUMBER: US 60/233,564
; PRIOR FILING DATE: 2000-09-19
; NUMBER OF SEQ ID NOS: 308
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 52
; LENGTH: 879
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-149-310-52

Query Match      4.6%; Score 94.5; DB 15; Length 879;
Best Local Similarity 19.0%; Pred. No. 10;
Matches 80; Conservative 67; Mismatches 127; Indels 147; Gaps 23;

Qy      34 ENLHYAANKAHHPAOROOQL-----KVDPRQLQASL-----QTVIG 72
Db      306 QNLKLFQKNSNSEBDDPQALIDVFVNIIBRSLPASVILNKTILAPNEBSMRKSMQ 365
Qy      73 MNYYSNAKYSKEM-----ADLSIHYYTLVLDSSDDPYRPMNNYFNDLQAGRE---Q 123
Db      366 LYSYS--SDLEPELVDTIIPKTDLTVHGLARFLN-----HYENNVAQMTVVVLE 413
Qy      124 AHPMMALVNEHFPNVLRHGFPCSLN-----LIRSTL-----DF 157
Db      414 KNNWKTLL--YFRALMALGDLAGQSSNSRNALNALAVSCTFLQSKYPRNYLQKY 470
Qy      158 FEGCWIEQYNFGGFPESHDYPOFLRRMNGIGHCVGASLWPKRQFDERGLFLETISALQOM 217
Db      471 FLGLGIELRN-----QASNFLRLCLNT-----KSISPEK--YKQVLTALISM 510
Qy      218 ENMMVWVNDLMSFYKRFDERDQISLVKNYV-----VDEI--TLHEALE--KLTOD 265
Db      511 -----NSIDVVGTMADQDHLLACEDFVESRMKLRPNISEKAKTTHRIFSPKLTOD 563
Qy      266 TLH-----SSKQWAVFSDKP--QVMDT-----IECFMNGYVTMHLCDHRYRLN 308
Db      564 STALDKVRAKEIVILPSEEDDNYKPLDISNATSSSEPRVDVVGGL-----FREALN 616
Qy      309 EIEYEKVGQKTEDAQKCFY--EQAANVAVGSPSEWAVYPIAQLANIRSKVDVAVDVKY 367
Db      617 E-----NDGKIHFVKEPITNVSAOSTPSTPPI--FNINATSESYNKSIDISN 664
Qy      368 I 368
Db      665 I 665

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RESULT 9
US-09-863-776-61
; Sequence 61, Application US/09863776
; Publication No. US20030198953A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A

```

APPLICANT: Majumder, Kamud
 APPLICANT: Tchernev, Velizar T
 APPLICANT: Mishra, Vishnu
 APPLICANT: Padigaru, Muralidhara
 APPLICANT: Spaderna, Steven K
 APPLICANT: Shenoy, Suresh G
 APPLICANT: Raetelli, Luca
 APPLICANT: Li, Li
 APPLICANT: Taupier, Raymond J
 APPLICANT: Gangoli, Esna
 TITLE OF INVENTION: No. US20030198953A1el Proteins and Nucleic Acids Encoding Same
 FILE REFERENCE: 21402-020
 CURRENT APPLICATION NUMBER: US/09/863, 776
 CURRENT FILING DATE: 2001-05-23
 PRIOR APPLICATION NUMBER: 09/540,763
 PRIOR FILING DATE: 2000-03-30
 PRIOR APPLICATION NUMBER: 60/206,679
 PRIOR FILING DATE: 2000-05-24
 PRIOR APPLICATION NUMBER: 60/206,688
 PRIOR FILING DATE: 2000-05-24
 PRIOR APPLICATION NUMBER: 60/206,829
 PRIOR FILING DATE: 2000-05-24
 PRIOR APPLICATION NUMBER: 60/207,748
 PRIOR FILING DATE: 2000-05-30
 PRIOR APPLICATION NUMBER: 60/207,798
 PRIOR FILING DATE: 2000-05-30
 PRIOR APPLICATION NUMBER: 60/208,263
 PRIOR FILING DATE: 2000-05-31
 PRIOR APPLICATION NUMBER: 60/208,831
 PRIOR FILING DATE: 2000-06-02
 PRIOR APPLICATION NUMBER: 60/209,451
 PRIOR FILING DATE: 2000-06-05
 PRIOR APPLICATION NUMBER: 60/210,060
 PRIOR FILING DATE: 2000-06-07
 PRIOR APPLICATION NUMBER: 60/219,507
 PRIOR FILING DATE: 2000-07-20
 PRIOR APPLICATION NUMBER: 60/221,337
 PRIOR FILING DATE: 2000-07-26
 PRIOR APPLICATION NUMBER: 60/221,927
 PRIOR FILING DATE: 2000-07-31
 PRIOR APPLICATION NUMBER: 60/263,135
 PRIOR FILING DATE: 2001-01-19
 PRIOR APPLICATION NUMBER: 60/263,688
 PRIOR FILING DATE: 2001-01-24
 PRIOR APPLICATION NUMBER: 60/263,694
 PRIOR FILING DATE: 2001-01-24
 NUMBER OF SEQ ID NOS: 155
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO 61
 LENGTH: 1201
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: VARIANT
 LOCATION: (122)..(214)
 OTHER INFORMATION: wherein Xaa is any amino acid.
 US-09-863-776-61

Query Match 4.6%; Score 94.5; DB 10; Length 1201;
 Best Local Similarity 21.1%; Pred. No. 16;
 Matches 58; Conservative 36; Mismatches 80; Indels 101; Gaps 11;

QY 202 DERGLFETISAIQ-----MENMNVVN-----DLMSFKEPDDE-----RDQISLV 244
 DB 379 DERSTLLDMSSIFPOKAKETMNSVDSCKACGEVDLPSELQDDEDAITHHGGIYEHTLLA 438
 QY 245 KNYVNSDEITHEALEK-----LTQDTLHSSKOM----- 273
 DB 439 YSEVSDGSKSLDLQRLPRGSSDSLTAASANSKAVHAYLDVTHVHLHQRQLENIWQH 498
 QY 274 -----VAVESDPOVMPTIECFMHHGYVTHL-----CDHRVYL-----NEIYEKVK 315
 DB 499 RYVRLHRLQLCVQGOVQVLDWIENHGEAFLSKHGTGVCKSLHRAALQKRHEDEFEVA 556

QY 316 GQKTEDAQKCKREEQAAVAVSPSEMAVPIAQLANIRSKVDK----- 361
 DB 559 QNTYTNADKLLEBAEQALQGTSCDPE-----LYQAHQLEDRIRQDFRRVRBQKILLDM 613
 QY 362 -----VKD-----VKEIQKPL-----SSIEIVE 380
 DB 614 SVSFHTHVKELMTWLELQKELLDVYABSEVAEQ 648

RESULT 10
 US-10-369-6698
 Sequence 6698, Application US/10369493
 Publication No. US20030233675A1
 GENERAL INFORMATION:
 APPLICANT: Cao, Yongwei
 APPLICANT: Hinkle, Gregory J.
 APPLICANT: Slater, Steven C.
 APPLICANT: Goldman, Barry S.
 APPLICANT: Chen, Xianfeng
 TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
 FILE REFERENCE: 38-10(52052)B
 CURRENT APPLICATION NUMBER: US/10/369,493
 CURRENT FILING DATE: 2003-02-28
 PRIOR APPLICATION NUMBER: US 60/360,039
 PRIOR FILING DATE: 2002-02-21
 NUMBER OF SEQ ID NOS: 47374
 SEQ ID NO 6698
 LENGTH: 514
 TYPE: PRT
 ORGANISM: Caenorhabditis elegans
 US-10-369-6698

Query Match 4.6%; Score 94; DB 14; Length 514;
 Best Local Similarity 20.9%; Pred. No. 5.4;
 Matches 43; Conservative 40; Mismatches 81; Indels 42; Gaps 9;

QY 214 IAQMENNMMVAVNDLMSFYK-----EPDDEKQISLVKKNVVSDEITHEALEKLTQDTLH 268
 DB 267 LQMKRCVTEYEGELTFPHQPDMDVGYDGLDRVFMPTITCHEIDERSPLMEIGADDLK 326
 QY 269 SSK-QWAVASDSDPOVMPTIEC---FMHGYVTHLCHDRYRLNEIYEKVGKTEDAQK 324
 DB 327 SAKFEITALEGVESVSGTQARTSYLPSEILM---GHFPELVYHKKENGQYNTDFCK 383
 QY 325 FCKFY-----EQAAVAVSPSEW-AVPIAQLANIRSKD-----VQDVQVKE 367
 DB 384 FHVYSVNPTPTCSAAIEIRLSRGIFNBESEYQVPPSDKUNLNDDEMSPVVDSIDLQ 443
 QY 368 I-QKPL-----SSIEIVE 380
 DB 444 VPQIQILRRDSDDEPDAGESMELVD 469

RESULT 11
 US-10-437-963-150539
 Sequence 150539, Application US/10437963
 Publication No. US20040123343A1
 GENERAL INFORMATION:
 APPLICANT: La Rosa, Thomas J.
 APPLICANT: Kovalic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 APPLICANT: Wu, Wei
 APPLICANT: Bouharov, Andrey A.
 APPLICANT: Barbazuk, Brad
 APPLICANT: Li, Ping
 TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
 FILE REFERENCE: 38-21(53221)B
 CURRENT APPLICATION NUMBER: US/10/437,963
 CURRENT FILING DATE: 2003-05-14

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; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 150539
; LENGTH: 713
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(713)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_50768C.1.pap
US-10-437-963-150539

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Query Match          4.6%; Score 94; DB 16; Length 713;
Best Local Similarity 22.1%; Pred. No. 8.7;
Matches 74; Conservative 44; Mismatches 113; Indels 104; Gaps 18;

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QY 18 EYIRYRDSNYTREERIE-----NLHYAVNKAHHFAQPR----- 51
DB 378 ESVKRYRDNLSRKEKEFEIIAQEGITCELPYDVCTRNSTYLMNAFPMRAYASLA 437
QY 52 -OQQLKVDPRKLOSLQTVGMVYVYSAKYSKECMADLSHYTTVLVDSSDDPYPM 110
DB 438 VODKMYKAPSPDQWERSTTVSGI-----LKVLYDATMYVSGSL---YPTS 480
QY 111 MNYPNDLQAGREQAHPWV-----ALVNEHPNVLRRHFGPFCSLNLRSTLDPFEGCMIQY 166
DB 461 NLYF-----HEMKIKLVLDKEHSNNDTE-----VASWQKKKDKFKYMLASY 524
QY 167 NFGGPGSHDYPOFLRRRN-----GLGHCVGASLWPKQDFE-----RGLFLEIT----- 211
DB 525 KYLCLPVLFD-PRF--KENFVEFRLGQAFGEN--AKERIDKVKRMNMLFKESPDKLD 579
QY 212 --SALAOMENNMV-WVWVNDLMSFYKEPDERDOI SLVKNYVVSDETLTHEALEKLTQDTLH 268
DB 580 NANPLRQAEHVAISENDPMADM-EFGNKFDTLNMWKT-----NHSKYPTLACIAQDVLA 633
QY 269 SSKQWVA-----VFSD-KDQVNDTIECFM 292
DB 634 WPASTVASESAFSTGSRVYSDPRCSLTWDSYEALI 668

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RESULT 12
US-10-437-963-185546
; Sequence 185546, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 185546
; LENGTH: 750
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_82431C.1.pap
US-10-437-963-185546

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Query Match          4.6%; Score 94; DB 16; Length 750;
Best Local Similarity 18.8%; Pred. No. 9.3;
Matches 77; Conservative 69; Mismatches 133; Indels 130; Gaps 20;

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QY 12 TSVRLLEYI-----RYRDSNTRYREIRNLNHYAVNKAHHFAQPRQQLKVDPRKLOASL 67
DB 267 TSNOLQYMCVLVAHYIENNMWQCRVLN-----FIVDPFH----- 302
QY QTIQVMVYVYSAKYSKECMADLSHYTTVLVDSSDDPYPMANYPNDLOAGREQA-HP 126
DB 303 ---TGIVY---AQAVFECMBWKIEDKVTITLDDNATNNDTAVTNLAKALLKRNVSFDP 356
QY 127 WVALVN--EHFPNVLRRHG--PFCSL-NLIRSTLDPFEGCMIQYVNGFGPFGSHDYPOFL 181
DB 357 SYFHIRCAAHVNLVNDGLQPIDNLISCLRNTVKYFKRSPSNRY-----KFV 404
QY 182 RRNNGLGHCVGASLWPKQDFEGLFLEIT---SALAOMENNMVWVNDLMSFYKEP--- 225
DB 405 EVCMNYSYKVG-----RGLADVTNRNNTYKMLDTCIDYKDAFGYKEVDTSY 453
QY 236 ---DERDOI SLVKNYVVSDEITLHEALEKLTQDTLHSSKQWVAVFSDDKDPQVNDTIECF 291
DB 454 VMKPSDDWVSFGK-----IRPIQTMAEASTAFSG---SLYFRANCF 493
QY 292 MHGYVTWMLCDHRYRLNEIYKVGQXTEDA-----QKFCFQEGQANVAVSP- 340
DB 494 -----YPIYVYKRALIEAQKSEDTYLRSGAAMLDFDKYWEKKNVMTIATI 542
QY 341 -----SEWAVPIAQLAN-IRSKVDVVDVKEIQKPLSIEIV 379
DB 543 LDPFRKRYIKWCF--AQLFPDICE--TEINDINOELRLYKYEIL 586

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RESULT 13
US-10-032-585-7483
; Sequence 7483, Application US/10032585
; Publication No. US20030180953A1
; GENERAL INFORMATION:
; APPLICANT: Terry, Roemer D.
; APPLICANT: Bo, Jiang
; APPLICANT: Charles, Boone
; APPLICANT: Howard, Bussey
; TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery
; FILE REFERENCE: 10182-005-999
; CURRENT APPLICATION NUMBER: US/10/032,585
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 8000
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7483
; LENGTH: 1107
; TYPE: PRT
; ORGANISM: Candida albicans
US-10-032-585-7483

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Query Match          4.6%; Score 94; DB 14; Length 1107;
Best Local Similarity 21.6%; Pred. No. 16;
Matches 66; Conservative 50; Mismatches 127; Indels 70; Gaps 12;

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QY 66 SLQTVGMVYVYSAKYSKECMADLSHYTTVLVDSSDDPYPMANYPNDLOAGREQA 125
DB 27 SLKEVNTIKYDMPQWLR--DANPIEVAVALDQTSVG-LAHLRQERNMLKESSEQA- 81
QY 126 PWWALVNEHPNVLRRHFGPFCSLNLRSTLDPFEGCMIQYVNGFGPFGSHDYPOFLRRN 185
DB 82 -LRSVNHEHYDLEFNKSMG---SYNTLLSTMKNSQSDSLEIKN-----FLEYSN 125
QY 186 GLGHCVGASLWPKQDFEGLFLEITSALAOMENNMVWVNDLMSFYKEPDERDOI SLVY 245
DB 126 -----KEYNDRSAVVGELSSASAKISE-MIEVLDMPEMNEIPGKIDQVLVDK 172
QY 246 N-YVVSDEITL-HEALEKLTQDTLHSSKQWVAVFSDDKDPQVNDTIECFMHGYVTWMLCDH 303
DB 173 KIHEVYDVISEGYTAEKYNTLMSLPAMNGIKITYLEQSKLFDWLIIDELQ----- 222
QY 304 RRLNEIYKVGQXTEDAQKCFEYEQANVAVSPSEWAVPIAQLANIRSKVDYK 363
DB 223 ---NEIYK-----YNNRPOGAL-----AMONTIHSNPQLTSTFVTL 258

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QY 364 DUKEIOKPLLSIEL 378
DB 259 DSKNLEQIFINSANL 273

RESULT 14

US-09-815-242-13668
Sequence 13668, Application US/09815242
Patent No. US20020061569A1

GENERAL INFORMATION:

APPLICANT: Haeselbeck, Robert
APPLICANT: Ohlson, Kari L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.
APPLICANT: Xu, H. Howard

TITLE OF INVENTION: Identification of Essential Genes in
Prokaryotes

FILE REFERENCE: ELITRA.011A

CURRENT APPLICATION NUMBER: US/09/815,242

PRIOR FILING DATE: 2001-03-21

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: 60/242,578

PRIOR FILING DATE: 2000-10-23

PRIOR APPLICATION NUMBER: 60/253,625

PRIOR FILING DATE: 2000-11-27

PRIOR APPLICATION NUMBER: 60/257,931

PRIOR FILING DATE: 2000-12-32

PRIOR APPLICATION NUMBER: 60/269,308

PRIOR FILING DATE: 2001-02-16

NUMBER OF SEQ ID NOS: 14110

SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 13668

LENGTH: 1460

TYPE: PRT

ORGANISM: Streptococcus pneumoniae

US-09-815-242-13668

Query Match 4.6%; Score 94; DB 9; Length 1460;

Best Local Similarity 19.3%; Pred. No. 24;

Matches 89; Conservative 71; Mismatches 180; Indels 120; Gaps 22;

QY 1 MENEPTPEYPLNT-SVRLLEYIRYSDSYTRERIEHLHYAVNKAHHFAQPRQOQLKVD 59
DB 306 MNNFTRLTVNVOQVGEVHYERKDLMPGERRAVE--FHAHTNSTDALPEVEIYATA 363

QY 60 PK-----RLQASLQITVGM-----VYISMAVSECM 86
DB 364 AKGCHKAVAITDGNVOSPPHYKPAKAGIQLYGMENANIVEDRPIVYN-----EVE 417

QY 87 ADLSIHVYTLVLDDSSDDPYPAMMYFNDLQAGR-----EQAHPMMA--- 129
DB 418 MDL-LEATY--VFDVETTGISATYNDLIQVAAKMTKANVIAFDEFINQHPLSAFTT 474

QY 130 ----LVNEHPN-----VLNHFQPC-SLNLIRSTLDFEGCWIEOYNFGFP----- 172
DB 475 ELTGITDQVNAKPEQVLOQEFQSCDITLVVAHNATFDVGFNNANYERHGLPKISQPV 534

QY 173 -----GSHDYQPLRRKNGIHCYV---GASLMPKQPDGRLFLBITSAIQENMMVM 223
DB 535 IDTLFARNLYPEYKR--HGIGPLTKRFGVAL---EHHHMANYPDAEATGRLL-----FIF 584

QY 224 VNDLMSFYKEFDDRDQISLVKNYVVSDEITLHEALEKLTQDTLHSSKOMYAVFSDK--- 280
DB 585 IKEYAEKHGVTDLRLNIDLSPDSYKAKIKHATIIYKQOVGLKNIFKLVLSLNTKTFE 644

QY 281 -DPQVMDTI-ECFMHGYVTMHLCDHRYRLNEIYERKYGQKTEBDAQCKEYEQANVAV 338
DB 645 GVPRIPTVDADHREGLIUSACSE---GEVFDVAVSGVDNAVAKITD---FIEVM 637
QY 339 SPEWAVPIAQLANIRSKDVQVQVKEIOKPLLSIEL 378
DB 698 PPAIYA-PLIAK-----EGYKMEELQITIKSLIEV 727

RESULT 15

US-10-425-115-283715
Sequence 283715, Application US/10425115
Publication No. US20040214272A1

GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
Plants

FILE REFERENCE: 38-21(5322)B

CURRENT APPLICATION NUMBER: US/10/425,115

PRIOR FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 369326

SEQ ID NO 283715

LENGTH: 381

TYPE: PRT

ORGANISM: Zea mays

OTHER INFORMATION: Clone ID: MRT4577_21847C.1.pcp

US-10-425-115-283715

Query Match 4.6%; Score 93.5; DB 17; Length 381;

Best Local Similarity 21.7%; Pred. No. 3.9;

Matches 49; Conservative 30; Mismatches 66; Indels 81; Gaps 10;

QY 166 YNFGFPGSHDYR--QFLRMNGIHCYVQASLMPKQPDGSG--LFLBITSAIQENM 220
DB 4 FNFTGPP---FPLGFFLNRRITRTBAVXGSIWLFEOBALGFSVSTNIRMTVITKSG 59

QY 221 MVMVNDLMSFYKEFDDRDQISLVKNYVVSDEITLHEALEKLTQDTL-HSSKOMYAVFSD 279
DB 60 GLWVHAPIAPTKC-----IQMLKE-----LAPVHIVLPFFAYEHKIFVEGFSR 105

QY 280 KDPQVMDTIECFMNGYVTMHLCDHRYRLNEIYERKYGQKTEBDAQCKEYEQANVAVS 339
DB 106 KFPKAO-----IW-----VA 115

QY 340 PSEWAVP---PIAQLANIRSKDVQVQV---YKEIOKPLLSIEL 378
DB 116 PROMSWPINLPLEFFGIFRAKPLKDBDDATPWVAIEQKVLSSPEV 161

Search completed: December 9, 2004, 19:00:41
Job time: 152 secs

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